

32692

Customer Number



Patent
Case No.: 57070US038

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: **CROOKS, STEPHEN L.**

Application No.: **10/681711** Group Art Unit: **Unknown**

Filed: **October 7, 2003** Examiner: **Unknown**

Title: **AMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES**

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING
I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

08 December 2003

Date

Renee A. Wolff
Signed by: Renee A. Wolff

Dear Sir:

Pursuant to 37 CFR §§ 1.56, 1.97, and 1.98, enclosed is a completed Form PTO-1449, citing references submitted for consideration by the Examiner. Copies of any cited foreign patents, non-patent literature, and unpublished US application documents are enclosed. Pursuant to the waiver in the Pre-OG Notice, dated July 11, 2003, copies of US patents and published US patent applications are no longer required and are not enclosed. It is respectfully requested that the Examiner initial and return the enclosed Form PTO-1449 to indicate that each reference has been considered.

It is believed that no fee is due; however, in the event a fee is required, please charge the fee to Deposit Account No. 13-3723.

Respectfully submitted,

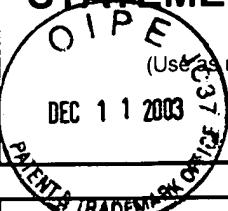
5- DECEMBER 2003
Date

By: Dean A. Ersfeld
Dean A. Ersfeld, Reg. No.: 46,689
Telephone No.: (651) 733-7830

Office of Intellectual Property Counsel
3M Innovative Properties Company
Facsimile No.: 651-736-3833

Substitute for form 1449A/PTO (modified)

Application Number 10/681,711

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STATEMENT BY APPLICANT

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|----------------------|-------------------|
| Filing Date | October 7, 2003 |
| First Named Inventor | Stephen L. Crooks |
| Art Unit | Unknown |
| Examiner Name | Unknown |
| Attorney Case Number | 57070US038 |

U.S. Patent Documents

| Exam. Init.* | Cite No. | Document Number | Publication Date or Issue Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|-----------------|-------------|----------------------------------|---|--|---|
| | | Doc. Number-(Kind Code if Known) | | | |
| | A1 | US- 3,314,941 | 04-18-1967 | Littell et al. | |
| | A2 | US- 4,689,338 | 08-25-1987 | John F. Gerster | |
| | A3 | US- 4,698,348 | 10-06-1987 | John F. Gerster | |
| | A4 | US- 4,929,624 | 05-29-1990 | Gerster et al. | |
| | A5 | US- 4,988,815 | 01-29-1991 | Andre et al. | |
| | A6 | US- 5,037,986 | 08-06-1991 | John F. Gerster | |
| | A7 | US- 5,175,296 | 12-29-1992 | Gerster | |
| | A8 | US- 5,238,944 | 08-24-1993 | Wick et al. | |
| | A9 | US- 5,266,575 | 11-30-1993 | John F. Gerster | |
| | A10 | US- 5,268,376 | 12-07-1993 | John F. Gerster | |
| | A11 | US- 5,346,905 | 09-13-1994 | John F. Gerster | |
| | A12 | US- 5,352,784 | 10-04-1994 | Nikolaides et al. | |
| | A13 | US- 5,367,076 | 11-22-1994 | Gerster | |
| | A14 | US- 5,389,640 | 02-14-1995 | Gerster et al. | |
| | A15 | US- 5,395,937 | 03-07-1995 | Nikolaides et al. | |
| | A16 | US- 5,446,153 | 08-29-1995 | Lindstrom et al. | |
| | A17 | US- 5,482,936 | 01-09-1996 | Kyle J. Lindstrom | |
| | A18 | US- 5,693,811 | 12-02-1997 | Lindstrom | |
| | A19 | US- 5,741,908 | 04-21-1998 | Gerster et al. | |
| | A20 | US- 5,756,747 | 05-26-1998 | Gerster et al. | |
| | A21 | US- 5,939,090 | 08-17-1999 | Beaurline et al. | |
| | A22 | US- 6,039,969 | 03-21-2000 | Tomai et al. | |
| | A23 | US- 6,069,149 | 05-30-2000 | Nanba et al. | |
| | A24 | US- 6,083,505 | 07-04-2000 | Miller et al. | |
| | A25 | US- 6,110,929 | 08-29-2000 | Gerster et al. | |
| | A26 | US- 6,194,425 | 02-27-2001 | Gerster et al. | |
| | A27 | US- 6,245,776 | 06-12-2002 | Skwierczynski et al. | |
| | A28 | US- 6,331,539 | 12-18-2001 | Crooks et al. | |

*Examiner:

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Stephen L. Crooks

Art Unit

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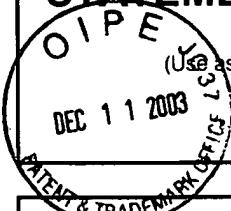
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(Use as many sheets as necessary)

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U.S. Patent Documents

| Exam. Init.* | Cite No. | Document Number | Publication Date or Issue Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------|----------|----------------------------------|--|---|---|
| | | Doc. Number-(Kind Code if Known) | | | |
| | A29 | US- 6,376,669 | 04-23-2002 | Rice et al. | |
| | A30 | US- 2002/0055517 A1 | 05-09-2002 | Smith | |
| | A31 | US- 2002/0058674 A1 | 05-16-2002 | Hedenstrom et al. | |
| | A32 | US- 6,451,810 | 09-17-2002 | Coleman et al. | |
| | A33 | US- 6,518,265 | 02-11-2003 | Kato et al. | |
| | A34 | US- 6,525,064 | 02-25-2003 | Dellarria et al. | |
| | A35 | US- 6,541,485 | 04-01-2003 | Crooks et al. | |
| | A36 | US- 6,545,016 | 04-08-2003 | Dellarria et al. | |
| | A37 | US- 6,545,017 | 04-08-2003 | Dellarria et al. | |
| | A38 | US- 6,558,951 | 05-06-2003 | Tomai et al. | |
| | A39 | US- 6,573,273 | 06-03-2003 | Crooks et al | |
| | A40 | US- 6,656,938 | 12-02-2003 | Crooks et al. | |
| | A41 | US- 6,664,264 | 12-16-2003 | Dellarria et al. | |

Foreign Patent Documents

| Exam. Init.* | Cite No. | Foreign Patent Document | | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | Translation (Check if yes) |
|--------------|----------|-------------------------|----------------------------|--------------------------------|---|---|-------------------------------|
| | | Ctry. Code | Number-KindCode (If known) | | | | |
| | B1 | PCT | WO 01/74343 | 10-11-2001 | | | |
| | B2 | PCT | WO 02/36592 | 05-10-2002 | | | X |
| | B3 | PCT | WO 02/46188 | 06-13-2002 | | | |
| | B4 | PCT | WO 02/46189 | 06-13-2002 | | | |
| | B5 | PCT | WO 02/46190 | 06-13-2002 | | | |
| | B6 | PCT | WO 02/46193 | 06-13-2002 | | | |
| | B7 | PCT | WO 02/46749 | 06-13-2002 | | | |
| | B8 | PCT | WO 02/102377 | 12-27-2002 | | | |
| | B9 | PCT | WO 03/020889 | 03-13-2003 | | | |
| | B10 | PCT | WO 03/043572 | 05-30-2003 | | | |
| | B11 | PCT | WO 03/045391 | 06-05-2003 | | | |
| | B12 | JP | 9-208584 | 08-12-1997 | | | |

*Examiner:

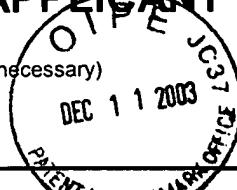
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Foreign Patent Documents

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|--------------|----------|-------------------------|----------------------------|--------------------------------|--|---|-------------------------------|
| | | Ctry. Code | Number-KindCode (If known) | | | | |
| | B13 | JP | 9-255926 | 03-26-1999 | | | X |
| | B14 | JP | 11-222432 | 08-17-1999 | | | X |
| | B15 | JP | 2000-247884 (abs) | 09-12-2000 | | | X |
| | B16 | EP | 0 394 026 | 10-24-1990 | | | |
| | B17 | EP | 1 104 764 | 06-06-2001 | | | |

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

| | | |
|--------------|----------|--|
| Exam. Init.* | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published |
| | C1 | Wozniak, et al, "The Amination of 3-nitro-1, 5-naphthyridines by Liquid Ammonia/Potassium Permanganate ^{1,2} . A New and Convenient Amination Method.", <u>Journal of the Royal Netherlands Chemical Society</u> , 102, pp 511-513, December 12, 1983. |
| | C2 | Brennan, et al, "Automated Bioassay of Interferons in Micro-test Plates", <u>Biotechniques</u> , June/July, 78, 1983. |
| | C3 | Testerman, et al., "Cytokine Induction by the Immunomodulators Imiquimod and S-27609", <u>Journal of Leukocyte Biology</u> , Volume 58, pp. 365-372, September 1995., |
| | C4 | Bachman, et al, "Synthesis of Substituted Quinolylamines. Derivatives of 4-Amino-7-Chloroquinoline", <u>J. Org. Chem.</u> , 15, pp 1278-1284 (1950). |
| | C5 | Jain, et al, "Chemical and Pharmacological Investigations of Some ω -Substituted Alkylamino-3-aminopyridines", <u>J. Med. Chem.</u> , 11, pp 87-92 (1968). |
| | C6 | Baranov, et al., <u>Chem. Abs.</u> 85, 94362, (1976). |
| | C7 | Berényi, et al, "Ring Transformation of Condensed Dihydro-as-triazines", <u>J. Heterocyclic Chem.</u> , 18, pp 1537-1540 (1981). |
| | C8 | Chollet, et al, "Development of a Topically Active Imiquimod Formulation", <u>Pharmaceutical Development and Technology</u> , 4(1), pp 35-43 (1999) |
| | C9 | Izumi, et al., "1H-Imidazo[4,5-c]quinoline Derivatives as Novel Potent TNF- α Suppressors: Synthesis and Structure-Activity Relationship of 1-, 2- and 4-Substituted 1H-imidazo[4,5-c]pyridines", <u>Bioorganic & Medicinal Chemistry</u> , 11, pp 2541-2550 (2003) |
| | C10 | Sidky et al., "Inhibition of Murine Tumor Growth by an Interferon-inducing Imidazoquinolinamine", <u>Cancer Research</u> , 52, 3528-3533, July 1, 1992. |
| | C11 | R.L. Miller et al., "Imiquimod applied topically: a novel immune response modifier and new class of drug", <u>International Journal of Immunopharmacology</u> , 21, 1-14 (1999). |
| | C12 | Karl R. Beutner, MD, et al., "Therapeutic response of basal cell carcinoma to the immune response modifier imiquimod 5% cream", <u>J.Am.Acad.Dermatol.</u> , Volume 41, Number 6, 1002-1007 (December 1999). |

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|--------------|----------|--|
| | C13 | Davis et al., "Self-Administered Topical Imiquimod Treatment of Vulvar Intraepithelial Neoplasia", <u>Journal of Reproductive Medicine</u> , Volume 45, Number 8, 619-623, (August 2000). |
| | C14 | Alexander Steinmann et al., "Topical Imiquimod Treatment of a Cutaneous Melanoma Mestasis", <u>J.Am.Acad.Dermatol.</u> , Letters, 555-556 (September 2000). |

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